

Message Text

MRN: 1977GENEVA006687 SEGMENT NUMBER: 000001 ERROR READING TEXT INDEX

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FM USMISSION GENEVA

TO SECSTATE WASHDC 71

INFO AMEMBASSY BONN

AMEMBASSY LONDON

AMEMBASSY MOSCOW

AMEMBASSY OTTAWA

AMEMBASSY ROME

AMEMBASSY THE HAGUE

AMEMBASSY STOCKHOLM

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ERDA HQ WASHDC

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HAVING COMMUNICATION CENTERS IN MOSCOW, WASHINGTON, AND
MELBOURNE."

4. NETWORK OF SEISMOGRAPHIC STATIONS: THIS CHAPTER, DRAFTED
BY BASHAM (CANADA), DESCRIBES LOCATIONS AND OPERATING
CHARACTERISTICS OF SEISMOGRAPHIC STATIONS MAKING UP THREE
NETWORKS. ONE NETWORK IS BASED SOLELY ON DATA PROVIDED BY
EXPERTS OF THE GORUP, THE SECOND IS MADE UP OF EXISTING
STATIONS OPERATING WITHIN CCD STATES, THE THIRD IS SCIENTIFIC
NETWORK DESIGNED, WITHOUT POLITICAL CONSIDERATIONS, FROM EXISTING

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STATIONS. THERE ARE FIFTY SEISMIC STATIONS IN EACH OF THE
NETWORKS. NO MAJOR DIFFERENCES DEVELOPED IN THE DISCUSSIONS
OF THIS MOSTLY FACTUAL MATERIAL; HOWEVER, SEVERAL POINTS OF
VIEW DEVELOPED OVER THE QUESTION OF THE DESCRIPTION OF

DESIRABLE NEW STATIONS. NO SPECIFIC DESIGNS EMERGED AND IT IS DOUBTFUL THAT THE FINAL REPORT WILL CONTAIN ANY SUBSTANTIAL STATEMENT ON THIS TOPIC.

5. CAPABILITIES. A DRAFT CHAPTER ON THE ESTIMATED SEISMOLOGICAL CAPABILITIES OF THE THREE NETWORKS WAS PRESENTED BY FILSON (US). THE CAPABILITIES WERE GIVEN IN TERMS OF THE ABILITY OF THE VARIOUS NETWORKS TO DETECT AND LOCATE SEISMIC EVENTS AND TO MEASURE VARIOUS SEISMIC SOURCE IDENTIFICATION PARAMETERS. SINCE THIS WAS ONE OF THE MORE TECHNICAL MATTERS BEFORE THE EXPERTS, INTEREST IN IT WAS HIGH AND THE DISCUSSION ON THE MATERIAL WAS FAIRLY EXTENSIVE. IT WAS STRESSED THAT THESE STUDIES WERE MADE UNDER MANY ASSUMPTIONS, SOME OF WHICH RELATED ONLY TO AN IDEAL SITUATION WHERE STATIONS WERE COMPLETELY RELIABLE AND SEISMIC SIGNALS DID NOT INTERFERE. TO MAKE THIS POINT, A COMPARISON WAS MADE WITH THE ESTIMATED SEISMIC DETECTION CAPABILITY OF THE PROPOSED NETWORKS AND THEIR PRESENT DETECTION REPORTING STATISTICS BASED ON DATA FROM THE INTERNATIONAL SEISMOLOGICAL CENTER (ISC). PRESENT REPORTING PROCEDURES YIELD A CAPABILITY ABOUT AN ORDER OF MAGNITUDE LESS THAN ESTIMATED POSSIBLE BY THE THEORETICAL CALCULATIONS. MOST OF THE COMMENTS MADE BY OTHER EXPERTS CAN BE ACCOMMODATED BY EXPANSION AND QUALIFICATION OF THE TEXT. PASSETCHNIK (USSR) ASKED THAT THE EFFECTS OF EQUIPING THE SCIENTIFIC NETWORKS WITH MODERN EQUIPMENT BE DEMONSTRATED AND DAHLMAN (SWEDEN) REQUESTED THAT A SURFACE WAVE DETECTION ANALYSIS BASED ON TWO (VICE FOUR) STATION DETECTIONS BE INCLUDED. FILSON (US) AGREED TO THESE REQUESTS UNDER THE CONDITIONS THAT THE TEXT STATE THE ASSUMPTIONS INVOLVED LIMITED OFFICIAL USE
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IN THE ESTIMATE OF THE CAPABILITY OF THE MODERNIZED NETWORK AND THE QUESTION OF ADEQUACY OF TWO STATION DETECTIONS FOR RELIABLE SURFACE WAVE MAGNITUDE DETERMINATION.

6. EXPERIMENTAL EXERCISE. AFTER SEVERAL GROUP DISCUSSIONS ON THE TOPIC, SUYEHIO (JAPAN) PRODUCED A DRAFT OF THE CHAPTER ON THE PROPOSAL FOR AN EXPERIMENTAL EXERCISE. THE USSR EXPERTS HAD PRESENTED A PAPER DURING THE FIRST WEEK IN WHICH THEY STATED THAT A TEST OF THE OPERATION OF THE GLOBAL NETWORK COULD TAKE PLACE AFTER THE ENTRY INTO FORCE OF A CTB. CONSULTATION DURING THE FIRST WEEK LED TO THEIR RELAXATION OF THIS REQUIREMENT. OTHER EXPERTS (LED BY DENMARK, THE NETHERLANDS AND NORWAY), WANTED THE GROUP TO BEGIN IMMEDIATE AND DETAILED PLANNING FOR AN EXPERIMENTAL EXERCISE. THE MAJORITY VIEW (SUPPORTED BY UK, USSR, US, SWEDEN) WAS THAT THE GROUP SHOULD POINT OUT IN THE REPORT TO THE CCD THE NEED FOR AN EXERCISE, OR TEST OF VARIOUS COMPONENTS OF THE PROPOSED SYSTEM, AND INDICATE THAT COMMITMENTS OF RESOURCES BY INDIVIDUAL GOVERNMENTS WOULD BE REQUIRED TO CONDUCT A RELEVANT EXERCISE. THE DRAFT

CHAPTER LISTS THE COMPONENTS OF THE PROPOSED DATA EXCHANGE SYSTEM THAT MUST BE TESTED, INCLUDING SEISMOLOGICAL CAPABILITIES, AND CONTAINS A STRONG STATEMENT ON THE NEED FOR SUCH AN EXERCISE TO TEST THEORETICAL CALCULATIONS AND ASSUMPTIONS. THE DRAFT SUGGESTS THAT IF THE CCD CONSIDERS AN EXPERIMENTAL EXERCISE NECESSARY A CONTINUATION OF THE PRESENT GROUP MIGHT BE APPROPRIATE FOR THIS PURPOSE.

7. COSTS. THE DRAFT CHAPTER ON ESTIMATED COSTS PREPARED BY HARJES (FRG) WAS ACCEPTED BY THE GROUP AFTER A SHORT DISCUSSION. BASED ON PREVIOUS STATEMENTS BY THE USSR EXPERT, STRONG OBJECTION TO STATING THE COSTS OF EQUIPMENT IN MONETARY TERMS WAS EXPECTED BUT THIS DID NOT OCCUR. SCHNEIDER (GDR) GAVE A STATEMENT POINTING TO THE UNCERTAINTY, DUE TO ECONOMIC FLUCTUATION, INVOLVED IN ASSIGNING

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MONETARY VALUES. THE USSR EXPERT SUPPORTED THIS POINT

OF VIEW BUT THE CONSENSUS OF THE GROUP WAS THAT THE REPORT REFLECTED THE MONETARY ESTIMATES OF EQUIPMENT REQUIRED FOR THE DATA EXCHANGE SYSTEM.

8. SCHEDULE FOR REMAINING WORK (COVERS ADMINISTRATIVE MATTER BROUGHT UP IN FINAL PLENARY MEETING OF THIS ROUND). EXCEPT FOR THE INTRODUCTION AND SUMMARY, WHICH WILL BE DRAFTED BY THE CHAIRMAN ERICSSON (SWEDEN), THE GROUP NOW HAS COMPLETED FIRST DRAFTS OF ALL SECTIONS OF THE FINAL REPORT. THE FIRST LIMITED OFFICIAL USE

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VERSION OF THE SECOND DRAFT WILL BE PRODUCED BY THE GROUPS SCIENTIFIC SECRETARY (RINGDAL, NORWAY) BY OCT. 1, 1977. THIS VERSION WILL BE IN ENGLISH ONLY AND WILL BE DISTRIBUTED TO ALL MEMBERS OF THE GROUP FOR COMMENTS. THESE COMMENTS MUST BE IN THE HANDS OF THE SCIENTIFIC SECRETARY BY NOV 15, 1977. ON DEC. 1, 1977 THE SECOND VERSION OF THE SECOND DRAFT WILL BE DISTRIBUTED TO ALL EXPERTS FOR REVIEW IN PREPARATION FOR THE FIFTH SESSION OF THE GROUP. AT THE SAME TIME, COPIES WILL BE SENT TO THE CCD SECRETARIAT FOR TRANSLATION INTO RUSSIAN, FRENCH, AND SPANISH. THE GROUP PLANS TO MEET AGAIN FROM FEB 27 TO MARCH 10, 1978 IN GENEVA. THE FIRST WEEK OF THIS SESSION IS INTENDED TO RESOLVE REMAINING MAJOR DIFFERENCES IN THE BODY OF THE FINAL REPORT AND TO DISCUSS DRAFTS OF THE INTRODUCTION AND SUMMARY. THE SECOND WEEK WILL BE DEVOTED TO APPROVING THE FINAL REPORT AND TO DRAFTING A LETTER TRANSMITTING IT TO THE CCD.

9. COMMENT: THIS REPORT WILL BE VIEWED BY MANY OF THE MEMBERS OF THE CCD AS THE IMPORTANT INITIAL STEP IN ESTABLISHING AN INTERNATIONAL SEISMIC DATA EXCHANGE SYSTEM WHICH MIGHT FACILITATE THE VERIFICATION OF A MULTILATERAL CTB. SOON AFTER THE REPORT IS SUBMITTED TO THE CCD, THE U.S. REPRESENTATIVE TO THE CCD MIGHT BE EXPECTED TO COMMENT ON IT AND INTERNATIONAL SEISMIC DATA EXCHANGE IN GENERAL. VANDEN HEUVEL

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Message Attributes

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